

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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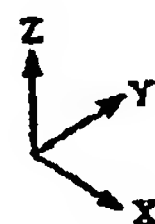
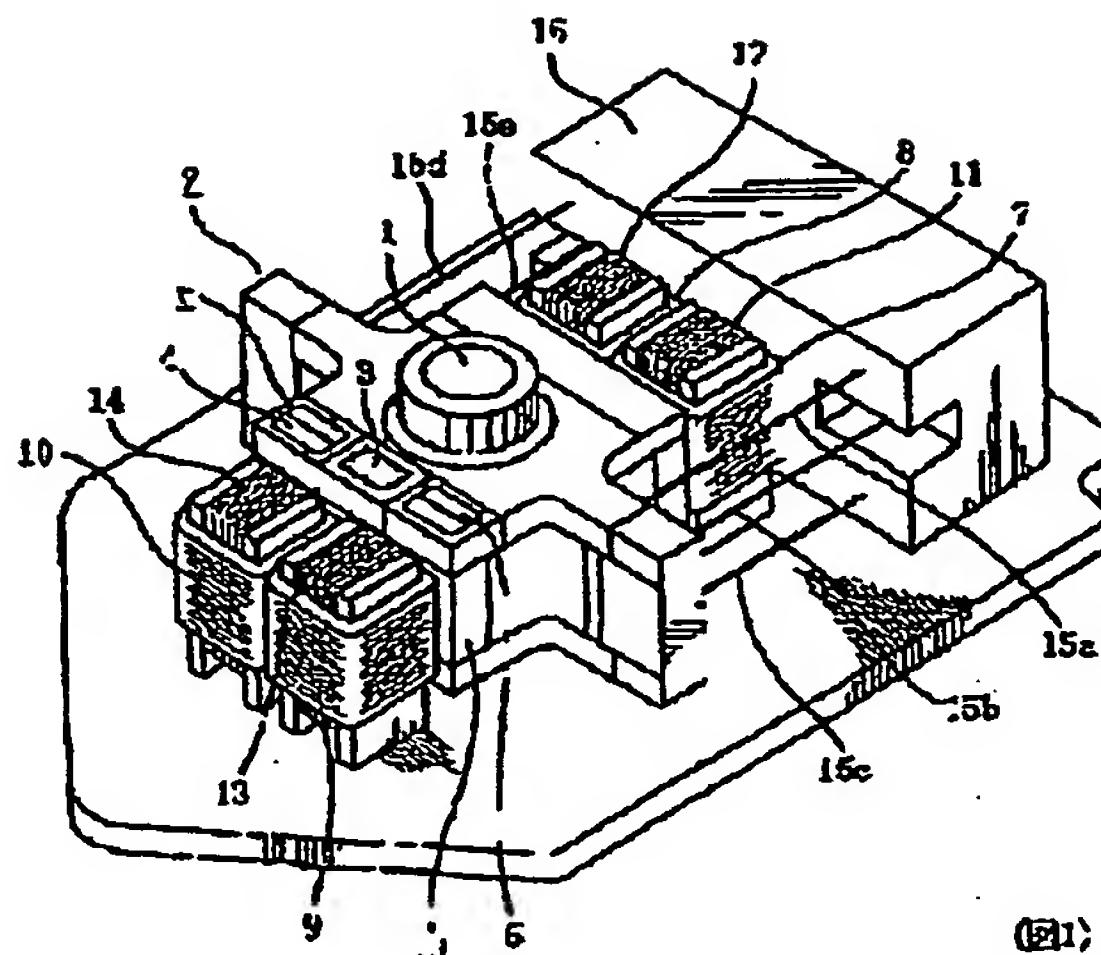
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APPLICANT : NEC CORP;

INVENTOR : SUGAYA SATOSHI;

INT.CL. : G11B 7/095

TITLE : OPTICAL HEAD DEVICE



- 1 対物レンズ
- 2 対物レンズホルダ
- 3 発光部
- 4, 5 受光部
- 6 チルトセンサ
- 7~10 フォカスコイル
- 11~14 トラッキングコイル
- 15a~15f ワイヤばね
- 19 磁石

**ABSTRACT :** **PROBLEM TO BE SOLVED:** To easily design a primary resonance frequency in the direction of each drive, sensitivity and so on and avoid the condition that the positioning wire springs for installation requires very severe precision and the procedures for assembling are complicated even when an objective lens holder is supported with the five or more wire springs.

**SOLUTION:** In an optical head device, a fixing block 16, focus coils 7 to 10, tracking coils 11 to 14 are arranged on its base 17, and the objective lens holder 2 holding a tilt sensor 6 consisting of an objective lens 1, a light-emitting part 3 and light-receiving parts 4 and 5 and a magnet 19 is supported with the wire springs. In this case, the objective lens holder 2 is supported with the four wire springs 15a, 15c, 15d and 15f which are fixed in the fixing block 16, and the two wire springs 15b and 15e make free the end part on the side of the fixing block 16 or objective lens holder 2. The wire springs 15a to 15f also serve as the six signal wires connected with the tilt sensor 6.

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